

Abstract of the Disclosure

A finger operated spray pump has a liquid reservoir (1), a cylinder (3) for containing a portion of the liquid from the reservoir (1) which is connected at one end to an atomizer (5), a piston (6) sealingly mounted within the cylinder (3) and movable within the cylinder (3) in a spray stroke, a passageway (7) connecting the cylinder (3) with the liquid reservoir (1), a one way valve (8) at the passageway (7) for allowing a flow of liquid only from the supply of liquid (2) into the cylinder (3), and a finger operated actuator (9) which is displaceable relative to the liquid reservoir (1). The outer diameter of the piston (6) and the corresponding inner diameter of the cylinder (3) is between about 0.5 mm and about 4.0 mm, the nozzle diameter of the atomizer (5) is between 15 μm and 150 μm , the operating pressure within the cylinder (3) during the spray stroke with average finger force is between 10 bar and 400 bar and the atomizer (5), the cylinder (3), the piston (6) and the one way valve means (8) are designed to withstand the operating pressure.